

Active Recombinant Human IFNA2 Protein, His-tagged

Cat. No. IFNA2-1555H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNA2 fused with His tag at the C-terminus was produced in Nicotiana Sp.Plant.
Species	Human
Source	Nicotiana Sp.
Description	IFN-alpha is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.
Form	Lyophilized, containing 50% SDS.
Bio-activity	The specific activity was determined by a quantitative gene report bioassay using human Type I interferon-sensitive cells. Compared with bacterial derived recombinant IFN-a 2a, assayed in the same conditions, plant derived IFN-alpha 2a showed 6.1×10^8 Units/mg in reference to a viral resistance assay using bovine kidney MDBK cells.
Molecular Mass	Interferon Alpha Human 2a Recombinant produced in Plant is a single, glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19 kDa.
AA sequence	The sequence of the first twelve N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Gln-Thr-His-Ser-Leu-Gly-Ser-Arg.

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Purity	Greater than 99.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Storage	Lyophilized Interferon alpha 2a although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution IFN-alpha 2a should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Interferon-alpha 2a in sterile 18MΩ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	IFNA2 interferon, alpha 2 [Homo sapiens]
Official Symbol	IFNA2
Synonyms	IFNA2; interferon, alpha 2; interferon alpha-2; alpha 2a interferon; IFN alphaA; IFNA; interferon alpha 2b; interferon alpha A; IeIF A; IFN-alpha-2; alpha-2a interferon; INFA2; IFNA2B; IFN-alphaA; MGC125764; MGC125765;
Gene ID	3440
mRNA Refseq	NM_000605
Protein Refseq	NP_000596

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MIM	147562
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UniProt ID	P01563
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